INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

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50X1-HUM

COUNTRY	Czechoslovakia	REPORT	
SUBJECT	Electric Power Lines in the Horni Slavkov-Loket District	DATE DISTR.	29 March 1955
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EVALUATIONS ARE DEFINITIVE. APPRAISAL OF CONTENT IS TENTATIVE.

1. The Horni Slavkov district circuit is fed by three power lines, each of 60,000 V capacity. They are as follows:

   a. line 22 A, leading from Pilsen via a distribution point at Karlovy Vary to Cheb.

   b. line CH 2 from Ervenice via Cheb to Horni Slavkov.

   c. a new line, 14 D, laid in 1951/1952, leads directly from Karlovy Vary through the Karlovy Vary step-up transformer.

   A number of household lines and industrial lines for plants which have their own relief power plants are connected with lines 22A and CH2. Line 14 D is a direct line to which no household or factory lines are connected. It supplies only the mines at Horni Slavkov.

2. As the current obtained from all three lines is not sufficient, it has to be led through a step-up transformer at Horni Slavkov. Since the lines 22A and CH 2 feed several factories, the current at Horni Slavkov is no more than 40-45,000 V. The step-up transformer increases the voltage of these two lines to 60,000 V each, so that the individual transformers get the full 60,000 V. This step-up transformer also serves as a distribution station for individual transformers and mines. 50X1-HUM

3. Distribution of power in the mining area

   a. The Leznice and Svatopluk mines and the Svatopluk prisoner camp have a transformer of their own.

   b. A current of 60,000 V enters the transformer, and current to the individual transformers at the pits is of 22,000 V and 1,200 V for the Svatopluk camp. At the pits the 22,000 V current is transformed to 6,000 V. Transformers at the pits have their own distribution points which supply current according to requirement: 500 V, 380 V or 220 V. The 220 V is for lighting purposes.

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STATE	X	ARMY	X	NAVY	X	AIR	X	FBI		AEC	X	OSI	x	ORR	x

(Note: Washington distribution indicated by "X"; Field distribution by "#".)

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b. Transformer (28) connected with transformer (27) receives 60,000 V. Transformers of pits Nos. 9, 10, and 19 are connected with this transformer (28). Current leaving this transformer (28) is of 22,000 V and the distribution system here is identical with that of transformer (27).

c. Transformer (26), known as Barbora I, receives 60,000 V current directly from the distribution station. Connected with this transformer are the Barbora and Prokop mines, the Prokop camp and pits No. 12, 13, and 14. From this transformer each pit receives 22,000 V current, and the camp, 1,200 V. The camp is connected with the transformer of the Prokop mine and the transforming and distribution system are the same as in transformer (27).

d. Transformer (29) is linked directly to transformer (26) and also receives 60,000 V current. It is a distribution and step-up transformer. Three other transformers, Nos. 30, 31, and 32, are connected with it. Pits No. 8, 18, and 16 are connected with transformer (29). The transforming and distribution of current is the same as in transformer (27).

e. Transformer (30) receives 60,000 V current and discharges 22,000 V. It is connected with the Prokop mine by a cable. Pit No. 11 is connected with transformer (30). The current led by cable from the Prokop mine serves as a relief supply for pit No. 11, and sometimes transformer (30) helps to supply the Prokop mine.

f. Transformer (31) is the same as above and is connected directly with the line leaving the distribution station. It supplies pits Nos. 21 and 22 which have no transformers of their own. The transformers of these pits are on poles, whence current of 6,000 V goes direct to the distribution point at the pit.

g. Transformer (32) is connected directly with the line leaving the distribution station and also receives 60,000 V current. Transformer (32) feeds pits Nos. 7 and 15. The transforming process is the same as in transformer (27).

h. Transformer (34) is destined for the distilling station and is directly connected with line 22 A. It transforms 60,000 V current to 6,000 V. The latter is then distributed by the distribution point of the distilling station.

i. Transformer (25) is connected directly with line 22 A. It feeds pits Nos. 1 and 2 and transforms 60,000 V to 6,000 V.

j. Transformer (36) transforms incoming current of 60,000 V to 3,000 V. It supplies exclusively the chemical laboratories. Transformer (36) is connected with transformer (23). The entire electrical circuit of Loket is switched in transformers (23) and (24).